

IN THE CLAIMS:

Kindly amend the claims as follows:

1. (Currently amended) A method for selecting dominant multi-media cues from a number of video segments, comprising the steps of:
 - calculating a multi-media information probability for each frame of the video segments;
 - dividing each of the video segments into sub-segments using pre-selected multi-media characteristic;
 - calculating a probability distribution of multi-media information for each of the sub-segments using the multi-media information for each frame;
 - combining the probability distribution for each sub-segments to form a combined probability distribution; and
 - selecting the multi-media information having the highest combined probability in the combined probability distribution as the dominant multi-media cues.
2. (Original) The method of claim 1, wherein the video segments are selected from a group consisting of commercial segments and program segments.
3. (Original) The method of claim 1, wherein the dividing video segments into sub-segments is performed using close caption information included in the video segments.

4. (Original) The method of claim 1, wherein the combining the probability distribution for each sub-segments is performed by the operation selected from a group consisting of an average or a weighted average.

5. (Original) The method of claim 1, wherein the combined probability distribution is formed from probability distributions of sub-segments of multiple programs.

6. (Original) The method of claim 1, which further includes initially selecting multi-media cues characteristic of a given TV program type or commercial.

7. (Currently amended) A method of segmenting and indexing video, comprising the steps of:

selecting program segments from the video;

dividing the program segments into program sub-segments; and

performing genre-based indexing on the program sub-segments using pre-selected multi-media cues-characteristic of a given genre of program.

8. (Original) The method of claim 7, wherein the selecting program segments is performed using multi-media cues characteristic of a given type of video segment.

9. (Original) The method of claim 7, wherein the dividing the program segments into program sub-segments is performed according to closed caption information included in the program segments.

10. (Original) The method of claim 7, wherein the genre-based indexing includes:
comparing the multi-media cues characteristic of a given genre of program to each of the
program sub-segments; and inserting a tag into one of the program sub-segments if there
is a match between one of the multi-media cues and sub-segments.

11. (Original) The method of claim 7, which further include performing object-based
indexing on the program sub-segments.

12. (Currently amended) A method of storing video, comprising the steps of:
pre-processing the video;
selecting program segments from the video;
dividing the program segments into program sub-segments;
performing genre-based indexing on the program sub-segments using pre-selected
multi-media cues-characteristic of a given genre of program to produce indexed program
sub-segments; and
storing the indexed program sub-segments.

13. (Original) The method of claim 12, wherein the genre-based indexing includes:
comparing the multi-media cues characteristic of a given genre of program to each of the
program sub-segments; and inserting a tag into one of the program sub-segments if there
is a match between one of the multi-media cues and sub-segments.

14. (Original) The method of claim 12, which further include performing object-based indexing on the program sub-segments.

15. (Currently amended) A device for storing video, comprising:

a pre-processor for pre-processing the video;
a segmenting and indexing unit for selecting program segments from the video, dividing the program segments into program sub-segments and performing genre-based indexing on the program sub-segments using pre-selected multi-media cues characteristic of a given genre of program to produce indexed program sub-segments; and
a storage device for storing the indexed program sub-segments.

16. (Original) The method of claim 15, wherein the genre-based indexing includes: comparing the multi-media cues characteristic of a given genre of program to each of the program sub-segments; and inserting a tag into one of the program sub-segments if there is a match between one of the multi-media cues and sub-segments.

17. (Original) The method of claim 15, wherein the segmenting and indexing unit further performs object-based indexing on the program sub-segments.